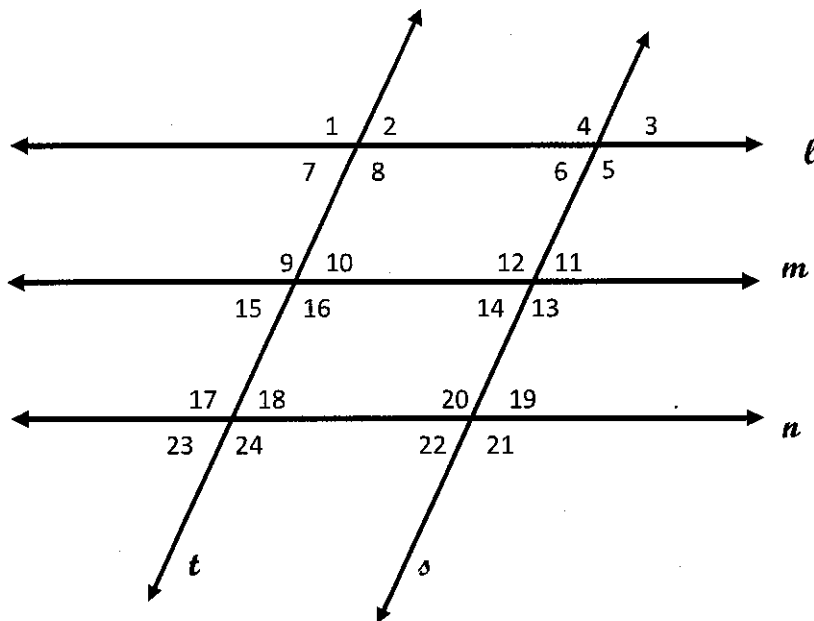


HW due 10/23

9. Given $\ell \parallel m \parallel n$ and $s \parallel t$, and $m\angle 1 = 71^\circ$, find:

$m\angle 2 = \underline{\hspace{1cm}}$ $m\angle 3 = \underline{\hspace{1cm}}$ $m\angle 4 = \underline{\hspace{1cm}}$
 $m\angle 5 = \underline{\hspace{1cm}}$ $m\angle 6 = \underline{\hspace{1cm}}$ $m\angle 7 = \underline{\hspace{1cm}}$
 $m\angle 8 = \underline{\hspace{1cm}}$ $m\angle 9 = \underline{\hspace{1cm}}$ $m\angle 10 = \underline{\hspace{1cm}}$
 $m\angle 11 = \underline{\hspace{1cm}}$ $m\angle 12 = \underline{\hspace{1cm}}$ $m\angle 13 = \underline{\hspace{1cm}}$
 $m\angle 14 = \underline{\hspace{1cm}}$ $m\angle 15 = \underline{\hspace{1cm}}$ $m\angle 16 = \underline{\hspace{1cm}}$
 $m\angle 17 = \underline{\hspace{1cm}}$ $m\angle 18 = \underline{\hspace{1cm}}$ $m\angle 19 = \underline{\hspace{1cm}}$
 $m\angle 20 = \underline{\hspace{1cm}}$ $m\angle 21 = \underline{\hspace{1cm}}$ $m\angle 22 = \underline{\hspace{1cm}}$
 $m\angle 23 = \underline{\hspace{1cm}}$ $m\angle 24 = \underline{\hspace{1cm}}$



Please fill the blank in with always, sometimes, or never.

10. Vertical angles are _____ congruent.

11. Corresponding angles are _____ congruent.

Indicate if the following pairs of lines are coinciding, parallel, perpendicular, or neither.

12. $x - 5y = 0$

$y + 1 = \frac{1}{5}(x + 5)$

13. $y - 7x = 6$

$y + 7x = 8$

14. $6x - 4y = 24$

$3y + 2x = 12$